

## EAST Search History

| Ref # | Hits | Search Query   | DBs                                       | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L51   | 25   | ("4186994"   "4755474"   "4904036"   "5049527"   "5091045"   "5159700"   "5199087"   "5224184"   "5319725"   "5583958"   "5753929"   "6069991").PN. OR ("6393183").URPN. | US-PGPUB; USPAT; USOCR                    | OR               | ON      | 2006/12/05 16:15 |
| L50   | 10   | ("4888625"   "5654559"   "6393183").PN. OR ("6864509").URPN.   | US-PGPUB; USPAT; USOCR                    | OR               | ON      | 2006/12/05 15:30 |
| L49   | 25   | ("4186994"   "4755474"   "4904036"   "5049527"   "5091045"   "5159700"   "5199087"   "5224184"   "5319725"   "5583958"   "5753929"   "6069991").PN. OR ("6393183").URPN. | US-PGPUB; USPAT; USOCR                    | OR               | ON      | 2006/12/05 15:30 |
| L48   | 0    | "10722431"   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2006/12/05 15:24 |
| L47   | 8    | "6430325"  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2006/12/05 15:24 |
| L46   | 246  | ((multipl\$4 or plurality or numerous or multitude or several) near2 wavelength) with laser) with (advantag\$4 or benefit\$4 or obvious\$4)                              | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2006/12/05 15:18 |
| L45   | 8280 | ((multipl\$4 or plurality or numerous or multitude or several) near2 wavelength) with laser  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2006/12/05 15:17 |
| L44   | 384  | ((integrated near2 circuit) or (chip)) with (laser or diode or array or LED or transceiver) with (detector or photodetector or photodiode) with waveguide)               | US-PGPUB; USPAT; USOCR                    | OR               | ON      | 2006/12/05 15:16 |
| L43   | 1    | ("6430325").PN. OR ("6775428").URPN.   | US-PGPUB; USPAT; USOCR                    | OR               | ON      | 2006/12/05 14:30 |
| L42   | 7    | ("20030012498"   "3966446"   "4038062"   "5867616"   "6131415"   "6205268"   "6415079").PN. OR ("6839481").URPN.   | US-PGPUB; USPAT; USOCR                    | OR               | ON      | 2006/12/05 14:22 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| L41 | 30  | l40 and wavelength   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/12/05 14:17 |
| L40 | 47  | (US-20050185880-\$ or<br>US-20050111788-\$ or<br>US-20030095736-\$ or<br>US-20040126057-\$ or<br>US-20040028323-\$ or<br>US-20040105364-\$ or<br>US-20040208418-\$ or<br>US-20050111781-\$ or<br>US-20040218848-\$ or<br>US-20040081402-\$ or<br>US-20030152391-\$ or<br>US-20030147580-\$ or<br>US-20020085786-\$ or<br>US-20020039464-\$ or<br>US-20010021287-\$ or<br>US-20040264867-\$ or<br>US-20040136639-\$ or<br>US-20040131304-\$ or<br>US-20040109629-\$).did. or<br>(US-6775428-\$ or US-6535661-\$ or<br>US-6495382-\$ or US-6430325-\$ or<br>US-6163639-\$ or US-5508835-\$ or<br>US-5295010-\$ or US-6038357-\$ or<br>US-6687463-\$ or US-6367989-\$ or<br>US-5959749-\$ or US-6839481-\$ or<br>US-6154587-\$ or US-6952504-\$ or<br>US-6905257-\$ or US-5093879-\$ or<br>US-6263132-\$ or US-6012855-\$ or<br>US-6735731-\$ or US-5448661-\$ or<br>US-6288813-\$ or US-5715339-\$ or<br>US-5592321-\$ or US-5581205-\$ or<br>US-6816642-\$ or US-6445837-\$).<br>did. or (US-5245680-\$ or<br>US-6619858-\$).did. | US-PGPUB;<br>USPAT                                    | OR | ON | 2006/12/05 14:16 |
| L34 | 121 | ("5650123" or "20030007736" or<br>"5262351" or "6611635" or<br>"6477286" or "6522794" or<br>"6693736")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/12/05 12:11 |
| L33 | 5   | ("20030025962"   "20030128907"  <br>"20040013358"   "5664032"  <br>"6845184").PN. OR ("6983092").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 12:10 |
| L32 | 2   | ("20040136715"   "5262656").PN.<br>OR ("7050664").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 12:08 |

## EAST Search History

|     |       |  |   |    |    |                  |
|-----|-------|--|---|----|----|------------------|
| L31 | 101   | (takayuki near12 kondo).in.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 12:01 |
| L30 | 2     | ("20030044118"   "6003222").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 12:00 |
| L29 | 0     | ("6778737").URPN.  | USPAT   | OR | ON | 2006/12/05 11:59 |
| L28 | 80    | shimoda.in. and waveguide  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/12/05 11:58 |
| L27 | 10646 | shimoda.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/12/05 11:58 |
| L26 | 45    | ("4208094"   "4239330"   "4701011"<br>  "4817205"   "4870637"  <br>"4880289"   "5050954"   "5069521"<br>  "5083874"   "5136666").PN. OR<br>("5245680").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 11:58 |
| L25 | 26    | ("4741595"   "5121459"   "5175777"<br>  "5247592"   "5295216"  <br>"5367596").PN. OR ("5652811").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 11:46 |
| L24 | 11    | ("20040098422"   "5420954"  <br>"5781320"   "5920412"   "5971624"<br>  "6243510"   "6304350"  <br>"6674749"   "6714545").PN. OR<br>("6816642").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 11:39 |
| L23 | 13    | ("5202940"   "5253094").PN. OR<br>("5448661").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 11:23 |
| L22 | 5     | ("5228042"   "5781682"   "6012855"<br>  "6201829").PN. OR ("6735731").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 11:18 |
| L21 | 24    | ("4688884"   "4802727"   "5022043"<br>  "5077814"   "5093879"  <br>"5138677"   "5187761"   "5333218"<br>  "5345527"   "5371820"  <br>"5388171"   "5448661"   "5462700"<br>  "5579426"   "5606165").PN. OR<br>("6012855").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 11:15 |
| L20 | 110   | ("3573459"   "4022647"   "4232219"<br>  "4612670"   "4614873"  <br>"4626878"   "4776659"  <br>"5028110").PN. OR ("5093879").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 11:12 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| L19 | 4   | ("4739404"   "5067830"   "5093879"   "5940562").PN. OR ("6905257").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 11:08 |
| L18 | 14  | ("20020028045"   "20020039464"   "20020097962"   "5244818"   "5280184"   "6343171"   "6611635"   "6684007"   "6690845"   "6706546"   "6785447"   "6815249"   "6815869"   "6845184").PN. OR ("6912333").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 11:00 |
| L17 | 4   | ("4878728"   "5140149"   "5511142"   "6724968").PN. OR ("7139448").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 10:56 |
| L16 | 422 | 15 and (@ad<="20031206")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/12/05 09:00 |
| L15 | 499 | 385/14,24.ccls. and (((diode or LED or (light near2 emit\$4)) with (detector or photodiode or photodetector)) with (waveguide or fiber or fibre))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/12/05 08:59 |
| S55 | 38  | 385/24.ccls. and ((all or purely or completely or entire or whole or entirely or complete or pure) near2 (optical)) and (((transmit or transmission) near5 (vary or varying or different or several or unique or multiple)) near5 (wavelength or frequency or frequencies or wavelengths)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/12/05 08:55 |
| L14 | 7   | ("20030012498"   "3966446"   "4038062"   "5867616"   "6131415"   "6205268"   "6415079").PN. OR ("6839481").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 08:51 |
| L13 | 31  | ("5504609"   "5557439"   "5559910"   "5589969"   "5651080"   "5673342"   "5696615"   "5773815"   "5784184"   "5793508"   "5798855").PN. OR ("6038357").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 08:28 |
| L8  | 5   | ("6430325").URPN.  | USPAT   | OR | ON | 2006/12/05 08:27 |
| L7  | 1   | ("6430325").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/12/05 08:27 |
| L6  | 0   | ("6775428").URPN.  | USPAT   | OR | ON | 2006/12/05 08:26 |
| L5  | 0   | ("6775428").URPN.  | USPAT   | OR | ON | 2006/12/05 08:18 |

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|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S79 | 7    | ("20030012498"   "3966446"   "4038062"   "5867616"   "6131415"   "6205268"   "6415079").PN. OR ("6839481").URPN.                                | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/08/16 15:12 |
| S78 | 1    | "6839481".pn.   | USPAT   | OR | ON | 2006/08/16 15:12 |
| S77 | 5    | ("6430325").URPN.   | USPAT   | OR | ON | 2006/08/16 15:12 |
| S76 | 7951 | 385/14,24.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/03 15:21 |
| S66 | 3974 | 385/14,24.ccls.   | USPAT   | OR | ON | 2006/08/03 15:21 |
| S75 | 2    | "6839481"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT             | OR | ON | 2006/08/03 10:56 |
| S74 | 7    | ("20030012498"   "3966446"   "4038062"   "5867616"   "6131415"   "6205268"   "6415079").PN. OR ("6839481").URPN.                                | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/03/23 15:38 |
| S73 | 132  | S66 and (bidirection\$3 near3 (fiber or waveguide or lightguide or (wave adj guide) or (light adj guide)))                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>IBM_TDB             | OR | ON | 2006/03/23 15:33 |
| S72 | 153  | S66 and (bidirection\$3 near3 (fiber or waveguide or light guide or (wave adj guide) or (light adj guide)))                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>IBM_TDB             | OR | ON | 2006/03/23 15:32 |
| S71 | 39   | S66 and ((circuit near2 block))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>IBM_TDB             | OR | ON | 2006/03/23 15:31 |
| S70 | 1    | S66 and ((circuit near2 block) same (CPU or (memory adj circuit) or DSP or (RF near2 amplif\$4) or (image near2 sensor) or (bio near2 sensor))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>IBM_TDB             | OR | ON | 2006/03/23 14:33 |
| S69 | 192  | S66 and (CPU or (memory adj circuit) or DSP or (RF near2 amplif\$4) or (image near2 sensor) or (bio near2 sensor) or (circuit near2 block))     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>IBM_TDB             | OR | ON | 2006/03/23 14:32 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S68 | 192  | S66 and (CPU or (memory adj circuit) or DSP or (RF near2 amplif\$4) or (image near2 sensor) or (bio near2 sensor) or (circuit near2 block))                     | USPAT   | OR | ON | 2006/03/23 14:31 |
| S67 | 156  | S66 and (CPU or (memory adj circuit) or DSP or (RF near2 amplif\$4) or (image near2 sensor) or (bio near2 sensor))  | USPAT   | OR | ON | 2006/03/23 14:31 |
| S65 | 1    | "6430325".pn.   | USPAT   | OR | ON | 2006/03/23 14:29 |
| S64 | 5    | ("6430325").URPN.   | USPAT   | OR | ON | 2006/03/23 13:29 |
| S63 | 2    | "6430325".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/03/23 12:03 |
| S62 | 6    | ("385"/\$.ccls.) and ((circuit near3 block) same ((light or signal) near3 (transmi\$4 or receiv\$4 or input or output)) same ((light or wave) near3 (guid\$3))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/03/23 12:03 |
| S61 | 23   | ("5069521"   "5204925"   "5218465"   "5448675"   "5461693"   "5570217").PN. OR ("5793909").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/03/23 11:42 |
| S60 | 2    | "5793909".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/03/23 11:32 |
| S59 | 354  | S58 and (LED)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/08 09:33 |
| S58 | 3568 | 385/24.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/08 09:33 |
| S33 | 3506 | 385/24.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/08 09:33 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S57 | 476 | ((all or purely or completely or entire or wholely or entirely or complete or pure) near2 (optical)) and (((transmit or transmission) near5 (vary or varying or different or several or unique)) near5 (wavelength or frequency or frequencies or wavelengths))                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/13 09:28 |
| S56 | 2   | "6718079".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 15:23 |
| S52 | 2   | "5793909".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 15:23 |
| S54 | 0   | "L28" and ((all or purely or completely or entire or wholely or entirely or complete or pure) near2 (optical)) and (((transmit or transmission) near5 (vary or varying or different or several or unique or multiple)) near5 (wavelength or frequency or frequencies or wavelengths)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 14:45 |
| S39 | 30  | S31 and ((all or purely or completely or entire or wholely or entirely or complete or pure) near2 (optical)) and (((transmit or transmission) near5 (vary or varying or different or several or unique)) near5 (wavelength or frequency or frequencies or wavelengths))               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 14:45 |
| S53 | 14  | (US-20030095736-\$ or US-20040028323-\$ or US-20040126057-\$ or US-20050111788-\$ or US-20040105364-\$ or US-20050185880-\$ or US-20040208418-\$).did. or (US-5959749-\$ or US-6038357-\$ or US-6367989-\$ or US-6535661-\$ or US-5295010-\$ or US-6687463-\$ or US-6154587-\$).did.  | US-PGPUB;<br>USPAT                                    | OR | ON | 2005/09/12 14:44 |
| S51 | 0   | "5793909.pn."   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 14:32 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S50 | 19  | "5793909"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 14:32 |
| S49 | 11  | ("5504609"   "5557439"   "5559910"<br>  "5589969"   "5651080"  <br>"5673342"   "5696615"   "5773815"<br>  "5784184"   "5793508"  <br>"5798855").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2005/09/12 14:32 |
| S48 | 71  | (connelly-Cushwa).xa. and<br>multiplexer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 14:27 |
| S47 | 110 | S45 and ("385"/\$.cccls.)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 13:54 |
| S45 | 476 | ((all or purely or completely or<br>entire or wholely or entirely or<br>complete or pure) near2 (optical))<br>and (((transmit or transmission)<br>near5 (vary or varying or different<br>or several or unique)) near5<br>(wavelength or frequency or<br>frequencies or wavelengths)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 13:53 |
| S46 | 30  | S45 and (((memory adj circuit) or<br>DSP or (RF adj circuit) or (image adj<br>sensor) or (bio adj sensor)) and<br>((data adj signals) or (clock adj<br>signals)))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 13:47 |
| S40 | 1   | S39 and (((memory adj circuit) or<br>DSP or (RF adj circuit) or (image adj<br>sensor) or (bio adj sensor)) and<br>((data adj signals) or (clock adj<br>signals)))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 13:47 |
| S44 | 15  | ("5793909").URPN.  | USPAT   | OR | ON | 2005/09/12 13:42 |
| S43 | 6   | ("5069521"   "5204925"   "5218465"<br>  "5448675"   "5461693"  <br>"5570217").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2005/09/12 13:41 |
| S42 | 19  | ("5532864"   "5748350"   "5754555"<br>  "5778118"   "5786914"  <br>"5796889"   "5798855"   "5808763"<br>  "5815295"   "5822095"  <br>"5835517"   "5880864"   "5887107"<br>  "5889904"   "5892781"  <br>"6243179"   "6256433"   "6429974"<br>  "6493117").PN.                         | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2005/09/12 13:20 |



## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S41 | 3    | S39 and ((memory adj circuit) or DSP or (RF adj circuit) or (image adj sensor) or (bio adj sensor))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 13:04 |
| S34 | 11   | S33 and (((memory adj circuit) or DSP or (RF adj circuit) or (image adj sensor) or (bio adj sensor)) and ((data adj signals) or (clock adj signals)))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 13:02 |
| S38 | 19   | S36 and ((all or purely or completely or entire or wholely or entirely or complete or pure) near2 (optical)) and (((transmit or transmission) near5 (vary or varying or different or several or unique)) near5 (wavelength or frequency or frequencies or wavelengths)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 12:54 |
| S32 | 112  | S31 and ((all or purely or completely or entire or wholely or entirely or complete or pure) near2 (optical)) and ((multiplex\$4).ab.)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 12:52 |
| S37 | 58   | S36 and (circuit near2 chip)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 11:21 |
| S36 | 1786 | S33 and waveguide   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 11:20 |
| S35 | 3    | S33 and (((memory adj circuit) or DSP or (RF adj circuit) or (image adj sensor) or (bio adj sensor)) and ((data adj signals) or (clock adj signals))) and waveguide   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 11:20 |
| S31 | 3506 | 385/24.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 10:52 |
| S29 | 115  | S28 and ((all or purely or completely or entire or wholely or entirely or complete or pure) near2 (optic\$5)) and ((multiplex\$4).ab.)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/12 10:52 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S30 | 62   | S27 NOT S29   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/09 10:32 |
| S28 | 3506 | 385/24.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/09 10:31 |
| S27 | 125  | ("385"/\$.ccls.) and ((all or purely or completely or entire or wholely or entirely or complete or pure) adj (optic\$5)) and ((multiplex\$4).ab.) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/09 10:31 |
| S25 | 115  | S19 and ((all or purely or completely or entire or wholely or entirely or complete or pure) near2 (optic\$5)) and ((multiplex\$4).ab.)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/09 10:31 |
| S26 | 2    | ("5612805"   "5717795").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2005/09/09 10:23 |
| S24 | 148  | S19 and ((all or purely or completely or entire or wholely or entirely or complete or pure) near3 (optic\$5)) and ((multiplex\$4).ab.)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 15:27 |
| S20 | 410  | S19 and ((all or purely or completely or entire or wholely or entirely or complete or pure) near3 (optic\$5))                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 15:22 |
| S23 | 215  | S20 and circuit   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 14:50 |
| S22 | 11   | S21 and circuit   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 14:50 |
| S21 | 26   | S19 and (((all or purely or completely or entire or wholely or entirely or complete or pure) near3 (optic\$5)).ab.)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 14:11 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S19 | 3506 | 385/24.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 13:49 |
| S6  | 144  | S5 and multiplex   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 13:49 |
| S18 | 54   | S16 and "385"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 12:45 |
| S16 | 314  | multiplex and ((circuit near2 board) or IC or LSI) and block and (fiber or waveguide) and (LED or laser) and (diode or PD) and ((differing or different or seperate or unlike) near2 (wavelength\$2 or frequenc\$4))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 12:45 |
| S17 | 0    | multiplex\$4 same ((circuit near2 board) or IC or LSI) same block same (fiber or waveguide) same (LED or laser) same (diode or PD) same ((differing or different or seperate or unlike) near2 (wavelength\$2 or frequenc\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 12:44 |
| S15 | 6    | S14 and (CPU or (memory near3 (circuit or chip)) or DSP or (RF near3 amplif\$5) or (image near3 sensor) or (bio near3 sensor))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 12:42 |
| S14 | 17   | (US-20050185880-\$ or US-20050111788-\$ or US-20030210865-\$ or US-20030095736-\$ or US-20020039464-\$ or US-20010012424-\$ or US-20020085784-\$).did. or (US-6907198-\$ or US-6888973-\$ or US-6823112-\$ or US-6671433-\$ or US-6522794-\$ or US-6215585-\$ or US-5960135-\$ or US-5485021-\$ or US-5416861-\$ or US-5835646-\$). did. | US-PGPUB;<br>USPAT                                    | OR | ON | 2005/09/08 12:19 |

## EAST Search History

|     |    |   |   |    |    |                  |
|-----|----|---|---|----|----|------------------|
| S7  | 14 | S6 and (CPU or (memory near3 (circuit or chip)) or DSP or (RF near3 amplif\$5) or (image near3 sensor) or (bio near3 sensor)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 12:19 |
| S13 | 1  | ("5394489").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2005/09/08 11:51 |
| S12 | 30 | S4 and (circuit near2 block)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 11:05 |
| S11 | 3  | S4 and (micro near2 tile)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 11:05 |
| S10 | 2  | "5465860".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 11:04 |
| S9  | 2  | "5703989".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 11:03 |

## EAST Search History

|    |      |  |   |    |    |                  |
|----|------|--|---|----|----|------------------|
| S8 | 103  | ("3872236"   "4007978"   "4114257"<br>  "4240849"   "4609252"  <br>"4630883"   "4749245"   "4750799"<br>  "4755866"   "4762381"  <br>"4776661"   "4787691"   "4805038"<br>  "4871224"   "4892374"  <br>"4969712"   "5009476"   "5054870"<br>  "5054872"   "5059475"  <br>"5061028"   "5104771"   "5117470"<br>  "5159700"   "5170448"  <br>"5179601"   "5192716"   "5194548"<br>  "5208879"   "5208892"  <br>"5219710"   "5219787"   "5220628"<br>  "5237434"   "5247593"  <br>"5249245"   "5263111"   "5268973"<br>  "5291567"   "5317657"  <br>"5323373"   "5332690"   "5352566"<br>  "5358896"   "5367584"  <br>"5371818"   "5375184"   "5394490"<br>  "5416861"   "5428698"  <br>"5444811"   "5459232"   "5465860"<br>  "5469518"   "5488682"  <br>"5500540"   "5511138"   "5513021"<br>  "5513283"   "5521992"  <br>"5525190"   "5541039"   "5546480"<br>  "5555326"   "5561733"  <br>"5562838"   "5568574"   "5581646"<br>  "5594093"   "5611008"  <br>"5613020"   "5621837"   "5638469"<br>  "5652811"   "5658966"  <br>"5659648"   "5708178"   "5723176"<br>  "5751867"   "5757989"  <br>"5761350"   "5764820"   "5770466"<br>  "5770851"   "5796883"  <br>"5801439"   "5817541"   "5818983"<br>  "5835646"   "5854868"  <br>"5902715"   "5917980"   "5980831"<br>  "6017681"   "6031945"  <br>"6054761"   "6091879"   "6141465"<br>  "6154582"   "6163957"  <br>"6167169"   "6229947"  <br>"6257771").PN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2005/09/08 08:26 |
| S5 | 478  | S4 and (((numerous or varying or vary or different or several) near4 (wavelength or wavelengths or frequencies or frequency)) with (waveguide or fiber or core))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 08:06 |
| S4 | 3995 | 385/14.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 08:06 |

## EAST Search History

|    |      |   |   |    |    |                  |
|----|------|---|---|----|----|------------------|
| S3 | 478  | S1 and (((numerous or varying or vary or different or several) near4 (wavelength or wavelengths or frequencies or frequency))) with (waveguide or fiber or core)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/08 08:06 |
| S1 | 3991 | 385/14.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/06 13:12 |
| S2 | 3    | S1 and (microtile or (micro near3 tile))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/06 13:10 |